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Question 01.

```
nvim
1 #include <stdio.h>
2
3
4 // Input basic salary from the user
5 printf("Enter basic salary: ");
6 scanf("%f", &basicSalary);
7
8 // Calculate House Rent and DA based on the conditions
9 if (basicSalary <= 1000) {
10     houseRent = 0;
11     da = 0.8 * basicSalary;
12 } else if (basicSalary <= 2000) {
13     houseRent = 0.25 * basicSalary;
14     da = 0;
15 } else {
16     houseRent = 0.3 * basicSalary;
17     da = 1.0 * basicSalary;
18 }
19
20 // Calculate the gross salary by adding basic salary, house rent, and DA
21 grossSalary = basicSalary + houseRent + da;
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```

Question 02.

```
nvim
1 #include <stdio.h>
2
3 int main() {
4     float physics, chemistry, biology, mathematics, computer, total, percentage;
5     char grade;
6     // Input marks of five subjects
7     printf("Enter marks in Physics: ");
8     scanf("%f", &physics);
9
10    printf("Enter marks in Chemistry: ");
11    scanf("%f", &chemistry);
12
13    printf("Enter marks in Biology: ");
14    scanf("%f", &biology);
15
16    printf("Enter marks in Mathematics: ");
17    scanf("%f", &mathematics);
18
19    printf("Enter marks in Computer: ");
20    scanf("%f", &computer);
21
22    // Calculate total marks
23    total = physics + chemistry + biology + mathematics + computer;
24
25    // Calculate percentage
26    percentage = (total / 500) * 100; // Assuming each subject is out of 100 marks
27
28    // Determine grade based on percentage
29    if (percentage >= 95) {
30        grade = 'A';
31    } else if (percentage >= 85) {
32        grade = 'B';
33    } else if (percentage >= 80) {
34        grade = 'C';
35    } else if (percentage >= 75) {
36        grade = 'D';
37    } else if (percentage >= 60) {
38        grade = 'E';
39    } else {
40        grade = 'F';
41    }
42
43    // Output percentage and grade
44    printf("Percentage: %.2f%%\n", percentage);
45    printf("Grade: %c\n", grade);
46
47    return 0;
48 }
49
50 gcc 02.c
51 ./a.out
52 Enter marks in Physics: 90
53 Enter marks in Chemistry: 89
54 Enter marks in Biology: 94
55 Enter marks in Mathematics: 92
56 Enter marks in Computer: 97
57 Percentage: 92.48%
58 Grade: B
59 ~/sp-mid
```

```
nvim
10 total = physics + chemistry + biology + mathematics + computer;
11
12 // Calculate percentage
13 percentage = (total / 500) * 100; // Assuming each subject is out of 100 marks
14
15 // Determine grade based on percentage
16 if (percentage >= 95) {
17     grade = 'A';
18 } else if (percentage >= 85) {
19     grade = 'B';
20 } else if (percentage >= 80) {
21     grade = 'C';
22 } else if (percentage >= 75) {
23     grade = 'D';
24 } else if (percentage >= 60) {
25     grade = 'E';
26 } else {
27     grade = 'F';
28 }
29
30 // Output percentage and grade
31 printf("Percentage: %.2f%%\n", percentage);
32 printf("Grade: %c\n", grade);
33
34 return 0;
35 }
36
37 gcc 02.c
38 ./a.out
39 Enter marks in Physics: 90
40 Enter marks in Chemistry: 89
41 Enter marks in Biology: 94
42 Enter marks in Mathematics: 92
43 Enter marks in Computer: 97
44 Percentage: 92.48%
45 Grade: B
46 ~/sp-mid
```

Question 03.

```
vim :l nvim
13 #include <stdio.h>
12
11 int main() {
10 int customerNumber;
9 float unitsConsumed, billAmount;
8
7 // Input customer number and units consumed
6 printf("Enter customer number: ");
5 scanf("%d", &customerNumber);
4
3 printf("Enter units consumed: ");
2 scanf("%f", &unitsConsumed);
1
14 // Calculate bill amount based on units consumed
1 if (unitsConsumed <= 100) {
2 | billAmount = unitsConsumed * 0.50;
3 | } else if (unitsConsumed <= 400) {
4 | | billAmount = 100 + (unitsConsumed - 100) * 0.65;
5 | } else if (unitsConsumed <= 600) {
6 | | billAmount = 250 + (unitsConsumed - 400) * 0.80;
7 | } else {
8 | | billAmount = 410 + (unitsConsumed - 600) * 1.80;
9 | }
10
01.c 02.c 05.c 03.c
:wincmd l
```

```
gcc 03.c
./a.out
Enter customer number: 666
Enter units consumed: 666
Customer Number: 666
Amount to be paid: 528.80 Taka
~/sp-mid 65
```

```
vim :l nvim
19 // Input customer number and units consumed
18 printf("Enter customer number: ");
17 scanf("%d", &customerNumber);
16
15 printf("Enter units consumed: ");
14 scanf("%f", &unitsConsumed);
13
12 // Calculate bill amount based on units consumed
11 if (unitsConsumed <= 100) {
10 | billAmount = unitsConsumed * 0.50;
9 | } else if (unitsConsumed <= 400) {
8 | | billAmount = 100 + (unitsConsumed - 100) * 0.65;
7 | } else if (unitsConsumed <= 600) {
6 | | billAmount = 250 + (unitsConsumed - 400) * 0.80;
5 | } else {
4 | | billAmount = 410 + (unitsConsumed - 600) * 1.80;
3 | }
2
1 // Output the bill amount
26 printf("Customer Number: %d\n", customerNumber);
1 printf("Amount to be paid: %.2f Taka\n", billAmount);
2
3 return 0;
4
01.c 02.c 05.c 03.c
:wincmd l
```

```
gcc 03.c
./a.out
Enter customer number: 666
Enter units consumed: 666
Customer Number: 666
Amount to be paid: 528.80 Taka
~/sp-mid 65
```

Question 05.

```
nvim
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main() {
5     int randomNumber, userGuess;
6
7     // Generate a random number between 500 and 1000
8     randomNumber = rand() % 501 + 500;
9
10    printf("A number between 500 and 1000 is selected.\n");
11
12    // Keep asking the user for guesses until they guess correctly
13    while (1) {
14        printf("Enter your guess: ");
15        scanf("%d", &userGuess);
16
17        // Check if the guess is too high, too low, or correct
18        if (userGuess < randomNumber) {
19            printf("Too low!\n");
20        } else if (userGuess > randomNumber) {
21            printf("Too high!\n");
22        } else {
23            printf("Yay! You guessed the correct number: %d\n", randomNumber);
24            break;
25        }
26    }
27
28    return 0;
29 }
```

```
gcc 05.c
./a.out
A number between 500 and 1000 is selected.
Enter your guess: 625
Too high!
Enter your guess: 600
Too high!
Enter your guess: 550
Too high!
Enter your guess: 525
Too high!
Enter your guess: 500
Too low!
Enter your guess: 520
Too high!
Enter your guess: 520
Too high!
Enter your guess: 510
Too high!
Enter your guess: 505
Too low!
Enter your guess: 506
Too low!
Enter your guess: 507
Yay! You guessed the correct number: 507
~/sp-mid
```

52s

```
nvim
17
16 // Generate a random number between 500 and 1000
15 randomNumber = rand() % 501 + 500;
14
13 printf("A number between 500 and 1000 is selected.\n");
12
11 // Keep asking the user for guesses until they guess correctly
10 while (1) {
9     printf("Enter your guess: ");
8     scanf("%d", &userGuess);
7
6     // Check if the guess is too high, too low, or correct
5     if (userGuess < randomNumber) {
4         printf("Too low!\n");
3     } else if (userGuess > randomNumber) {
2         printf("Too high!\n");
1     } else {
23        printf("Yay! You guessed the correct number: %d\n", randomNumber);
1        break;
2    }
3 }
4
5 return 0;
6 }
```

```
gcc 05.c
./a.out
A number between 500 and 1000 is selected.
Enter your guess: 625
Too high!
Enter your guess: 600
Too high!
Enter your guess: 550
Too high!
Enter your guess: 525
Too high!
Enter your guess: 500
Too low!
Enter your guess: 520
Too high!
Enter your guess: 520
Too high!
Enter your guess: 510
Too high!
Enter your guess: 505
Too low!
Enter your guess: 506
Too low!
Enter your guess: 507
Yay! You guessed the correct number: 507
~/sp-mid
```

52s